



Intake Manifold Instructions

OR-INC-001-NAT SILVER
OR-INC-001-MTB BLACK

OFFRAMP Premium 55mm Performance Intake Manifold

GENERAL INFORMATION

Table 1. General Information

Kits	Suggested Tools	Skill Level ⁽¹⁾
OR-INC-001-NAT, OR-INC-001-MTB	Safety glasses, Torque wrench, Loctite 243 (blue)	
(1) Tightening to torque value or other moderate tools and techniques required		

KIT CONTENTS

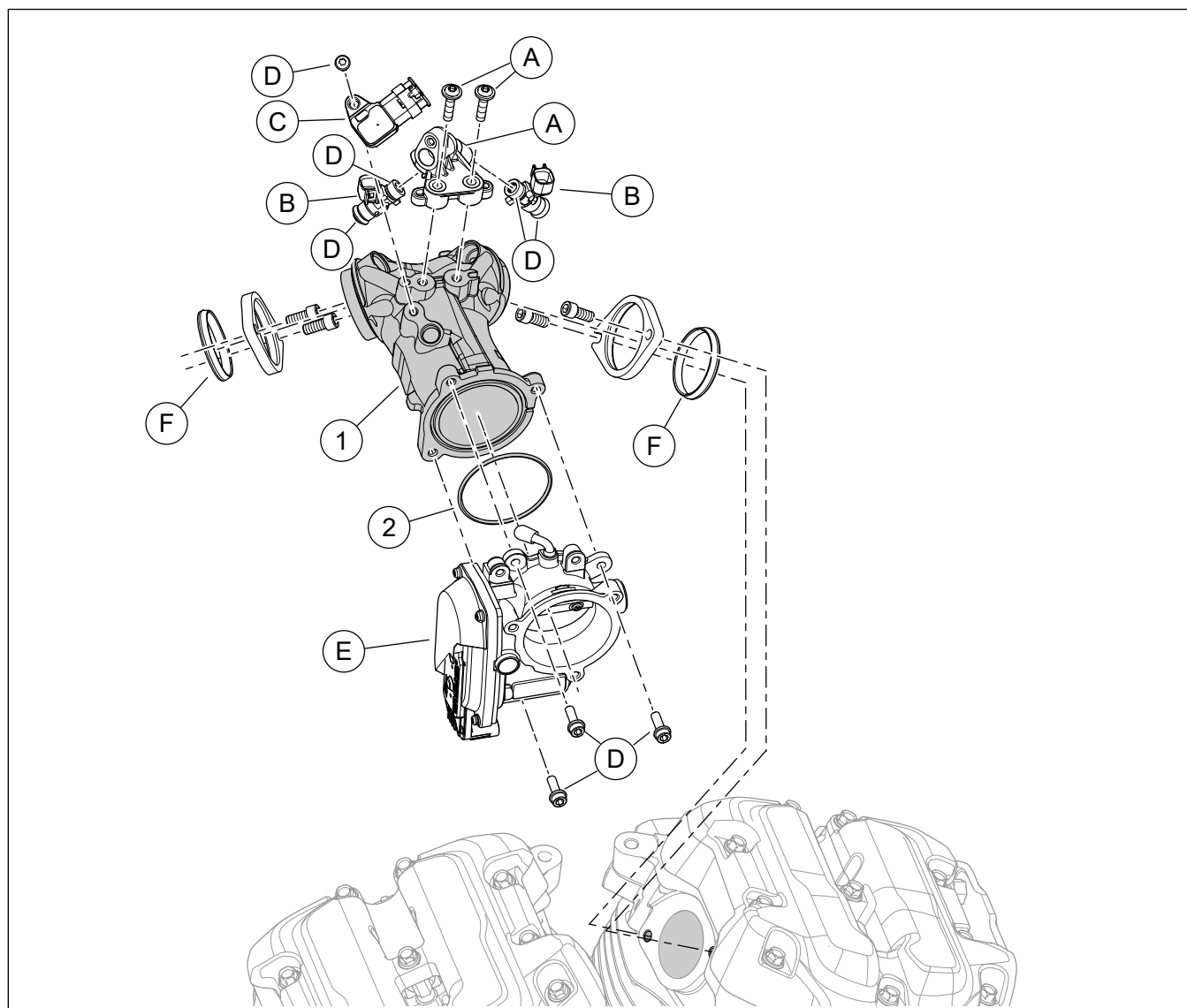


Figure 1. Kit Contents: Induction Module Assembly

Installation Requirements

LOCTITE 243 MEDIUM STRENGTH THREADLOCKER AND SEALANT(BLUE)(99642-97)is required for proper installation of this kit.

▲ WARNING

Rider and passenger safety depend upon the correct installation of this kit. Use the appropriate service manual procedures. If the procedure is not within your capabilities or you do not have the correct tools, have a OFFRAMP dealer perform the installation. Improper installation of this kit could result in death or serious injury. (00333b)

NOTE

This instruction sheet references service manual information. A service manual for the year and model motorcycle is required for this installation and is available from:

- A OFF RAMP dealer.
- O-R Service Information Portal, a subscription-based access available for most 2001 and newer models. For more information see Frequently ask questions about subscriptions.

PREPARE

NOTE

For vehicles equipped with security siren: With security fob present, turn ignition switch ON. After system is disarmed, turn ignition switch OFF.

▲ WARNING

To prevent spray of fuel, purge system of high-pressure fuel before supply line is disconnected. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00275a)

1. Purge, disconnect and remove fuel supply line. See service manual.

▲ WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, remove main fuse before proceeding. (00251b)

2. Remove main fuse. See service manual.
3. Remove seat. Retain seat and all mounting hardware. See service manual.
4. Remove fuel tank. See service manuals.

REMOVE

▲ WARNING

When servicing the fuel system, do not smoke or allow open flame or sparks in the vicinity. Gasoline is extremely flammable and highly explosive, which could result in death or serious injury. (00330a)

1. Remove Original Equipment (OE) induction module. See service manual.
2. Remove fuel rail and mounting screws (A).
3. Remove injectors (B), T-MAP sensor (C), mounting screw and throttle body (E).
4. Save for transfer to **new** intake manifold.
5. Inspect T-MAP sensor O-ring. If damaged, replace sensor.

INSTALL

1. Apply a few drops of threadlocker to threads of fuel rail screws.

Consumable: LOCTITE 243 MEDIUM STRENGTH THREADLOCKER AND SEALANT (BLUE) (99642-97)

2. Install fuel rail and injectors with screws. Secure fuel rail screws. Tighten.

Torque: 4–6 N·m (35–53 **in-lbs**) Torx head screw

NOTE

New screws and O-rings are available in kit 91800058.

3. When installing T-MAP sensor on **new** throttle body, place a few drops of threadlocker on threads of T-MAP sensor screw. Tighten.

Torque: 3.4–3.6 N·m (30–32 **in-lbs**) T-MAP sensor screw
Consumable: LOCTITE 243 MEDIUM STRENGTH THREADLOCKER AND SEALANT (BLUE) (99642-97)

4. Install **new** O-ring into intake manifold and mount manifold to throttle body using OEscrews.

5. Connect fuel line to induction module.

- a. Push fuel line firmly onto fuel rail inlet fitting until a click is heard.
- b. Pull hose to verify secure attachment.

6. With counterbore facing outward, install flange adapters onto induction module.

7. Place a **new** seal in each flange adapter with beveled side against counterbore.

8. Install induction module.

NOTE

For best results, use INTAKE MANIFOLD SCREWDRIVER (PART NUMBER: HD-35801).

- a. Slide induction module into position until slots engage left side screws.
 - b. Start right side screws.
 - c. Temporarily fasten mounting bracket to cylinder heads with breather bolts.
9. Tighten right side screws until snug.
 10. Tighten left side screws until snug.
 11. Secure right and left side screws. Tighten.
Torque: 10.9–17.6 N·m (96–156 **in-lbs**)
 12. Install connections:
 - a. Install rear fuel injector connector (black).
 - b. Install front fuel injector connector (grey).
 - c. Install TMAP sensor connector.
 - d. Install TCA connector.
 - e. Capture TCA harness to anchor point with **new** anchored cable strap.
 - f. **California models:** Connect purge tube to fitting.
 - g. **Non-California models:** Inspect rubber cap for damage.